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GSTM1 Mouse, His

Catalog #:ENPS-463

For research use only.

Description:GSTM1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 238 amino acids (1-218 a.a.) and having a molecular mass of 28.1kDa. The GTM1 is fused to a 20 amino acid His-Tag at N-Terminus and purified by proprietary chromatographic techniques.

Synonyms:GST1, GTH4, GTM1, GSTM1-1, MGC26563, GSTM1a-1a, GSTM1b-1b, GSTM1, Glutathione S-transferase Mu 1, GST class-mu 1, Glutathione S-transferase GT8.7, pmGT10, GST 1-1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLDGET EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KM

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The GSTM1 solution contains 20 mM Tris-HCl buffer (pH8.0), 1mM DTT and 10% glycerol

Stability:
GSTM1 althoμgh stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Cytosolic and membrane-bound types of GST are encoded by 2 different supergene families. There are 8 classes of the soluble cytoplasmic mammalian GST: alpha, kappa, mu, omega, pi, sigma, theta and zeta. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drμgs, environmental toxins and products of oxidative stress, by conjμgation with glutathione. The genes encoding the mu class of enzymes are arranged in a gene cluster on chromosome 1p13.3 and aare highly polymorphic. These genetic differences can change an individual's resistance to carcinogens and toxins as well as affect the toxicity and efficacy of certain drμgs. Null mutations of this class mu gene have been linked with the rise in a number of cancers.

Biological Activity:
Specific activity is
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